

ASI 2026 – List of Selected Abstracts – Facilities, Technologies and Data science

Name	Conference ID	Affiliation	Title	Abstract Type by SOC
Arun Surya	ASI2026_478	Indian Institute of Astrophysics	Designing in the ELT Era: Insights from TMT Instrument Design for the next generation Indian Instruments	Invited
Prashant Pathak	ASI2026_492	IIT Kanpur	Direct Imaging of Exoplanets: Current Status and Future Prospects	Invited
Akshaya V G	ASI2026_772	Raman Research Institute	RFSOC-Based Digital Correlation Spectrometer for APSEra	Oral
Anirban Kopty	ASI2026_158	Inter-University Centre for Astronomy and Astrophysics, Pune	Optimal cross-correlation technique to search for strongly lensed gravitational waves	Oral
Ashish Mandal	ASI2026_26	Physical Research Laboratory	Simulation of Silicon Drift Detector for High-Energy Astrophysics Experiments	Oral
Bharat Chandra P	ASI2026_614	Raman Research Institute	PRATSUH 0: A Space-Based RFI Survey Mission for Low-Frequency Cosmology	Oral
Deepthi Ayyagari	ASI2026_1063	North Eastern Space Application Center (NESAC)	Regional Specification and Mitigation of Quiet and Disturbed Low-Latitude Ionospheric Effects for LEO-Based PNT Augmentation ove	Oral
Kevikumar Lad	ASI2026_473	PRL, Ahmedabad	Illumination stability in radial velocity measurements : Insights from PARAS-2	Oral
Krishnakumar M A	ASI2026_989	National Centre for Radio Astrophysics, TIFR, Pune	Reviving the Ooty Radio Telescope	Oral
Nikita Rawat	ASI2026_966	South African Astronomical Observatory	Cataclysmic Variables from the Mobile Astronomical System of Telescope Robots (MASTER) network	Oral
Sreejith Padinhatteeri	ASI2026_1058	Manipal Academy of Higher Education	Solar Imager for Magnetic and Doppler measurements at two heights.	Oral
Sriram Sripadmanaban	ASI2026_549	Indian Institute of Astrophysics	DMD-based Multi-Object Spectrograph (D-MOS): AIV and First Light Results	Oral
Twinkle Sharma	ASI2026_566	Thapar Institute of Engineering and Technology	Design and testing of the payload for microsatellite- ThaparSat	Oral
Vipin K Yadav	ASI2026_52	Vikram Sarabhai Space Centre	The Realization of a Deployable Boom for the MAG Payload aboard Indian Aditya-L1 Solar Mission	Oral
Yogesh Wadadekar	ASI2026_642	National Centre for Radio Astrophysics	Ensemble Machine Learning Photometric Redshifts for the Rubin/LSST Era: Performance and Readiness for Precision Cosmology	Oral
Abhirami S Raghu	ASI2026_46	Indian Institute of Technology, Kanpur	Mid-IR Water-Vapor Seeing: Implications for METIS High-Contrast Imaging from VLTI Data	Poster
Abhishek R	ASI2026_775	Raman Research Institute	An Inverted 150 to 700 MHz Transient Array at Gauribidanur Observatory	Poster
Aditya Sahasranshu	ASI2026_963	RAD@Home	An online tool for making spectral index maps using any two radio survey FITS files	Poster
Akshank Tyagi	ASI2026_146	Indian Institute of Science	Dynamic UV sky simulation with transient M dwarf Flares	Poster
Alikhan Basheer	ASI2026_560	Indian Institute of Astrophysics	Fabrication & Qualification of Roundel Polishing for TMT at India-TMT Optics Fabrication Facility	Poster

Alka Singh	ASI2026_230	Physical Research Laboratory, Ahmedabad	Laboratory characterization of an IR detector for PRL NISP instrument	Poster
Amal MP	ASI2026_746	ARIES	Image Quality Statistics at the Devasthal site	Poster
Amar Nath	ASI2026_760	Raman Research Institute	QMIST: A Software Pipeline for the Detection of Quasi-periodic Microstructures in Pulsar Emission	Poster
Archita Rai	ASI2026_335	Korea Astronomy & Space Science Institute	Laboratory Implementation & Performance Characterization of MOAO system for Astronomical Applications.	Poster
Arijit Maiti	ASI2026_460	Physical Research Laboratory	On-sky characterization and science verification of ProtoPol: a medium resolution echelle spectro-polarimeter for PRL telescopes	Poster
Arul Pandian B	ASI2026_511	Raman Research Institute	Gauribidanur Diamond Array Radio Telescope (GBD-DART): Polarimetric Observation of Pulsars and Transients at 175 MHz.	Poster
Athul C N	ASI2026_491	Indian Institute of Technology, Kanpur	Development of a Shack–Hartmann–Based Atmospheric Turbulence Monitor and Profiler	Poster
Avinash Kumar Paladi	ASI2026_687	IISc Bengaluru	Revisiting wideband pulsar timing technique	Poster
Chaitanya Rajarshi	ASI2026_73	Inter University Center for Astronomy and Astrophysics	WALOP-N: Assembly, Integration, and Testing Status	Poster
deekshya roy sarkar	ASI2026_545	Physical Research Laboratory	Design and Development of SIRIS instrument for PRL's 1.2m telescope	Poster
Gireesh G V S	ASI2026_144	Indian Institute of Astrophysics	A prototype radio interferometer system with commercial dish TV antennas for observations of the solar chromospheric magnetic fi	Poster
Gokul Mehra	ASI2026_977	Aryabhata Research Institute of Observational Sciences	Characterisation of the ILMT 4K × 4K TDI CCD imager	Poster
Hariharan S.S.	ASI2026_518	Sri Sivasubramaniya Nadar College of Engineering	Raspberry PI based cloud cover monitor for optical astronomical observatories	Poster
Indrajit Vittal Barve	ASI2026_866	Indian Institute of Astrophysics	A Hybrid FPGA-GPU Instrument for Raw Voltage Recording and Multibeamforming in Low-Frequency Solar Radio Astronomy	Poster
kalpesh chillal	ASI2026_18	IUCAA	Design and Development of an Arduino-Based Shutter Controller for the WALOP Multi-CCD Astronomical Instrument	Poster
Kapil Kumar	ASI2026_730	Physical Research Laboratory, Ahmedabad	Design and Development of Medium Resolution Spectrograph “SAGAR” to Study the stellar activities in M-Dwarfs	Poster
KARTIK GOKHE	ASI2026_823	Aryabhata Research Institute of Observational Sciences, Nainital	A Multi-Functional Robotic Pickup Arm Positioning Pipeline for TIFR-ARIES Multi-Object Optical to Near- infrared Spectrograph	Poster
Kartik Mandar	ASI2026_892	Raman Research Institute	RRIvis: A GPU-Accelerated, Full-Polarization Visibility Simulator for Radio Interferometry	Poster
Kaushal Buch	ASI2026_954	Giant Metrewave Radio Telescope, NCRA-TIFR	Recent Developments in the Statistical Analysis and Automated Identification of Powerline RFI at uGMRT	Poster
Kiran L	ASI2026_999	U R Rao Satellite Centre	Characterization of micropore optics for wide-field X-ray imaging spectrometer	Poster

Km Nitu Rai	ASI2026_436	ARIES Nainital	From Radio to Optical: Extending India's Interferometric Legacy to Stellar Surface Imaging	Poster
Kumar Pranshu	ASI2026_696	Aryabhata Research Institute of Observational Sciences, Nainital	The Transient and Variable Sky over Devasthal: Results from the 4-m International Liquid Mirror Telescope transient survey	Poster
Maithilee Deshpande	ASI2026_956	Indian Institute of Astrophysics	Design of a compact high-resolution spectrograph for spectroscopic arrays	Poster
Narendra Nath Patra	ASI2026_564	Indian Institute of Technology Indore	GARUDA: An automated radio data analysis pipeline for the GMRT	Poster
Narendra S	ASI2026_303	Raman Research Institute	PRATUSH - Radio Astronomy from the Farside of the Moon	Poster
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Nitish Singh	ASI2026_294	IIA Bangalore	Optical Design of a Direct Fibre-Fed MOS with an α - β Fiber Positioner for the 2.34 m VBT	Poster
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Priya Shukla	ASI2026_825	Raman Research Institute	GRex: An Instrument Overview and New Upper Limits on the Galactic FRB Population	Poster
Ravinder Banyal	ASI2026_895	Indian Institute of Astrophysics	SCALES at Keck: Instrument Overview and Indian Contribution	Poster
Remya B S	ASI2026_568	Indian Institute of Astrophysics	Sub-Aperture Interferometric Metrology for TMT Roundel Polishing: Qualification of Prototype Roundel at ITOFF	Poster
Sahana Bhatramakki	ASI2026_686	Raman Research Institute	Exploring decametric radio sources by Reviving Gauribidanur GeeTee Array	Poster
SAMEER R BHARADWAJ	ASI2026_1041	National Centre for Radio Astrophysics-Tata Institute of Fundamental Research	Sources and Mitigation of Radio Frequency Interference at the Ooty Radio Telescope	Poster
Samika Ren	ASI2026_129	Chandigarh University	NAVIKA: A Solar Sail-Powered Active Debris Collector for Sustainable Space Infrastructure	Poster
Samruddhi Rohokale	ASI2026_858	Udaipur solar Observatory, Physical Research Laboratory, Udaipur	Early Development of the Multi-Feed Antenna and RF Front-End for ARUN-SSW	Poster
Sarvesh Yadav	ASI2026_324	Aryabhata Research Institute of Observational Sciences (ARIES)	An Automated Deep Learning Pipeline for the Detection and Characterization of Low-SNR Streaks in ILMT Survey Data.	Poster

Saurabh Sharma	ASI2026_257	ARIES Nainital	3.6m Devasthal Optical Telescope (DOT): Status and Future Directions	Poster
Savarimuthu P	ASI2026_951	Indian Institute of Astrophysics	Radiometric Calibration of the VELC 5303 Å Channel on Aditya-L1	Poster
Sayuf Shaik	ASI2026_1066	Indian Institute of Astrophysics	Augmentation of Gauribidanur Radioheliograph to estimate the coronal magnetic field strength from meter-wave radio observations	Poster
Shatanik Bhattacharya	ASI2026_474	Tata Institute of Fundamental Research	Accelerating Peak Bagging of red-giant oscillation spectra using Supervised and Reinforcement Learning	Poster
Shivam Kumaran	ASI2026_219	Space Applications Centre, ISRO, Ahmedabad	Sutra: A ML based framework for Interstellar medium filament identification and beam-level characterisation	Poster
SHUBHANGI JAIN	ASI2026_739	Indian Institute of Astrophysics	FISAT :Far-Uv Imaging Satellite (A 4U UV imaging telescope)	Poster
Supriyo Ghosh	ASI2026_102	University of Hertfordshire, UK	Enhancing the Dynamic Range of an sCMOS Astronomical Camera through Row-Readout Sequencing	Poster
Syed Abdul Lateef	ASI2026_214	U R Rao Satellite Centre	Studies on Optical Readout Technique for Photoelectron X-ray Polarimeter	Poster
Tanmay Das	ASI2026_209	NCRA-TIFR	Understanding the ionosphere above the GMRT using GNSS TEC data	Poster
Tarun Bangia	ASI2026_479	Aryabhata Research Institute of Observational Sciences (ARIES), Nainital	Operational diagnostics and maintenance of hydrostatic bearing system of the 3.6m DOT	Poster
TJayadev Ashok	ASI2026_766	Raman Research Institute	High Accuracy in-situ Antenna reflection coefficient measurement system for the SARAS experiment	Poster
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